



# **STATE OF NEW HAMPSHIRE**

**2017**

## **Annual Motor Vehicle Inspection Program Report**

### **Appendix A**

### **Anti-tampering and OBD II Inspection Data**

**July 27, 2018**

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#### 4.1.1 - 51.366(a) Test Data Report

The program shall submit to EPA by July of each year a report providing basic statistics on the testing program for January through December of the previous year, including:

(a)(1) The number of vehicles tested by model year and vehicle type.

Calendar Year 2017 – Number and Type of Vehicles Tested				
Model Year	Vehicle Type	OBD	Visual	Grand Total
2019	L	30	0	30
2018	L	14,642	0	14,642
2017	L	111,054	21	111,075
2016	L	101,671	20	101,691
2015	L	109,533	7	109,540
2014	L	107,122	0	107,122
2013	L	88,705	6	88,711
2012	L	78,700	4	78,704
2011	L	70,715	2	70,717
2010	L	63,736	3	63,739
2009	L	50,979	2	50,981
2008	L	66,965	2	66,967
2007	L	63,812	1	63,813
2006	L	58,423	2	58,425
2005	L	56,369	3	56,372
2004	L	50,167	1	50,168
2003	L	40,431	3	40,434
2002	L	31,714	2	31,716
2001	L	23,851	0	23,851
2000	L	19,395	1	19,396
1999	L	14,630	1	14,631
1998	L	11,173	6	11,179
<b>Grand Total</b>		1,233,817	87	1,233,904

(a)(2) By model year and vehicle type, the number and percentage of vehicles:

- (i) Failing initially, per test type;
- (ii) Failing the first retest per test type;
- (iii) Passing the first retest per test type;
- (iv) Initially failed vehicles passing the second or subsequent retest per test type;
- (v) The number and percentage of vehicles receiving a waiver that initially failed - The NH I/M Program does not allow for waivers.

Calendar Year 2017 – OBD Emissions Test Results						
Year	Type	TEST SEQUENCE	PASS	FAIL	Total	% Fail
2019	L	1. INITIAL TEST	29	1	30	3.33%
	L	2. FIRST RE-TEST	1	0	1	0%
	L	3. SUBSEQUENT RE-TEST	0	0	0	0%
2018	L	1. INITIAL TEST	14,543	99	14,642	0.68%
	L	2. FIRST RE-TEST	90	4	94	4.26%
	L	3. SUBSEQUENT RE-TEST	4	0	4	0%
2017	L	1. INITIAL TEST	110,229	825	111,054	0.74%
	L	2. FIRST RE-TEST	775	20	795	2.52%
	L	3. SUBSEQUENT RE-TEST	20	8	28	28.57%
2016	L	1. INITIAL TEST	100,987	684	101,671	0.67%
	L	2. FIRST RE-TEST	730	11	741	1.48%
	L	3. SUBSEQUENT RE-TEST	11	0	11	0%
2015	L	1. INITIAL TEST	106,575	2,958	109,533	2.70%
	L	2. FIRST RE-TEST	2,281	448	2,729	16.42%
	L	3. SUBSEQUENT RE-TEST	405	175	580	30.17%
2014	L	1. INITIAL TEST	103,306	3,816	107,122	3.56%
	L	2. FIRST RE-TEST	3,018	674	3,692	18.26%
	L	3. SUBSEQUENT RE-TEST	623	225	848	26.53%
2013	L	1. INITIAL TEST	85,498	3,207	88,705	3.62%
	L	2. FIRST RE-TEST	2,674	524	3,198	16.39%
	L	3. SUBSEQUENT RE-TEST	480	257	737	34.87%
2012	L	1. INITIAL TEST	75,367	3,333	78,700	4.24%
	L	2. FIRST RE-TEST	2,705	565	3,270	17.28%
	L	3. SUBSEQUENT RE-TEST	520	203	723	28.08%
2011	L	1. INITIAL TEST	67,188	3,527	70,715	4.99%
	L	2. FIRST RE-TEST	2,856	554	3,410	16.25%
	L	3. SUBSEQUENT RE-TEST	482	202	684	29.53%
2010	L	1. INITIAL TEST	60,006	3,730	63,736	5.85%
	L	2. FIRST RE-TEST	2,933	630	3,563	17.68%
	L	3. SUBSEQUENT RE-TEST	562	207	769	26.92%

Calendar Year 2017 – OBD Emissions Test Results (cont.)						
Year	Type	TEST SEQUENCE	PASS	FAIL	Total	% Fail
2009	L	1. INITIAL TEST	47,444	3,535	50,979	6.93%
	L	2. FIRST RE-TEST	2,746	612	3,358	18.23%
	L	3. SUBSEQUENT RE-TEST	545	214	759	28.19%
2008	L	1. INITIAL TEST	61,368	5,597	66,965	8.36%
	L	2. FIRST RE-TEST	4,360	911	5,271	17.28%
	L	3. SUBSEQUENT RE-TEST	789	311	1,100	28.27%
2007	L	1. INITIAL TEST	57,393	6,419	63,812	10.06%
	L	2. FIRST RE-TEST	4,787	1,078	5,865	18.38%
	L	3. SUBSEQUENT RE-TEST	900	484	1,384	34.97%
2006	L	1. INITIAL TEST	51,412	7,011	58,423	12.00%
	L	2. FIRST RE-TEST	4,997	1,259	6,256	19.97%
	L	3. SUBSEQUENT RE-TEST	1,041	599	1,640	36.52%
2005	L	1. INITIAL TEST	48,651	7,718	56,369	13.69%
	L	2. FIRST RE-TEST	5,480	1,364	6,844	19.93%
	L	3. SUBSEQUENT RE-TEST	1,136	600	1,736	34.56%
2004	L	1. INITIAL TEST	42,132	8,035	50,167	16.02%
	L	2. FIRST RE-TEST	5,445	1,571	7,016	22.39%
	L	3. SUBSEQUENT RE-TEST	1,227	737	1,964	37.53%
2003	L	1. INITIAL TEST	33,190	7,241	40,431	17.91%
	L	2. FIRST RE-TEST	4,886	1,432	6,318	22.67%
	L	3. SUBSEQUENT RE-TEST	1,134	642	1,776	36.15%
2002	L	1. INITIAL TEST	25,338	6,376	31,714	20.10%
	L	2. FIRST RE-TEST	4,044	1,399	5,443	25.70%
	L	3. SUBSEQUENT RE-TEST	1,098	752	1,850	40.65%
2001	L	1. INITIAL TEST	18,387	5,464	23,851	22.91%
	L	2. FIRST RE-TEST	3,283	1,332	4,615	28.86%
	L	3. SUBSEQUENT RE-TEST	1,013	739	1,752	42.18%
2000	L	1. INITIAL TEST	15,796	3,599	19,395	18.56%
	L	2. FIRST RE-TEST	2,365	570	2,935	19.42%
	L	3. SUBSEQUENT RE-TEST	420	246	666	36.94%

Calendar Year 2017 – OBD Emissions Test Results (cont.)						
Year	Type	TEST SEQUENCE	PASS	FAIL	Total	% Fail
1999	L	1. INITIAL TEST	11,849	2,781	14,630	19.01%
	L	2. FIRST RE-TEST	1,811	479	2,290	20.92%
	L	3. SUBSEQUENT RE-TEST	345	214	559	38.28%
1998	L	1. INITIAL TEST	8,997	2,176	11,173	19.48%
	L	2. FIRST RE-TEST	1,347	391	1,738	22.50%
	L	3. SUBSEQUENT RE-TEST	257	166	423	39.24%
		<b>Initial Tests Totals</b>	<b>1,145,685</b>	<b>88,132</b>	<b>1,233,817</b>	<b>7.14%</b>
		<b>Overall Test Totals</b>	<b>1,222,311</b>	<b>110,941</b>	<b>1,333,252</b>	<b>8.32%</b>

**NOTE:** Due to the timing of OBD tests/re-tests, there is no direct relationship between Initial Test failures and Re-test counts (i.e. Initial Tests and Re-tests may have occurred for a particular vehicle during different calendar years).

- (a)(2) By model year and vehicle type, the number and percentage of vehicles:  
 (vi) Vehicles with no known final outcome (regardless of reason).

Calendar Year 2017 - No Final Outcome Vehicles				
Model Year	Type	NFO Total	Total tested	Total %
2019	L	0	30	0.00%
2018	L	0	14,642	0.00%
2017	L	20	111,054	0.02%
2016	L	22	101,671	0.02%
2015	L	257	109,533	0.23%
2014	L	370	107,122	0.35%
2013	L	309	88,705	0.35%
2012	L	391	78,700	0.50%
2011	L	467	70,715	0.66%
2010	L	523	63,736	0.82%
2009	L	520	50,979	1.02%
2008	L	865	66,965	1.29%
2007	L	1,144	63,812	1.79%
2006	L	1,349	58,423	2.31%
2005	L	1,598	56,369	2.83%
2004	L	1,796	50,167	3.58%
2003	L	1,635	40,431	4.04%
2002	L	1,615	31,714	5.09%
2001	L	1,491	23,851	6.25%
2000	L	1,034	19,395	5.33%
1999	L	812	14,630	5.55%
1998	L	676	11,173	6.05%
<b>Totals</b>		<b>16,894</b>	<b>1,233,817</b>	<b>1.37%</b>

**NOTE:** NFO totals above include: 1) Vehicles that were initially tested, but not re-tested; and 2) Vehicles failing Initial Tests & all Re-tests. This date reflects any re-tests within 5-months of initial failure even if the re-test occurred in the subsequent calendar year.

- (a)(2) By model year and vehicle type, the number and percentage of vehicles:  
 (xi) Passing the on-board diagnostic check;  
 (xii) Failing the on-board diagnostic check;  
 (xix) MIL is commanded on and no codes are stored;  
 (xx) MIL is not commanded on and codes are stored;  
 (xxi) MIL Is commanded on and codes are stored;  
 (xxii) MIL is not commanded on and codes are not stored;  
 (xxiii) Readiness status indicates that the evaluation is not complete for any module supported by on-board diagnostic systems;

2017 OBD Test Results – Light Duty Vehicles - All Test Sequences (Initial Tests & Retests)																
	OBD Test Results				MIL Commanded On				MIL Not Commanded On				Vehicles Not Ready			
Year	Fail	%	Pass OBD	%	No DTCs stored	%	DTCs stored	%	No DTCs stored	%	DTCs stored	%	No DTCs stored	%	DTCs stored	%
2019	1	3.23%	30	96.77%	0	0.00%	0	0.00%	14	45.16%	0	0.00%	0	0.00%	0	0.00%
2018	103	0.70%	14,637	99.30%	0	0.00%	9	0.06%	7,505	50.92%	24	0.16%	0	0.00%	0	0.00%
2017	853	0.76%	111,024	99.24%	0	0.00%	96	0.09%	76,716	68.57%	512	0.46%	0	0.00%	0	0.00%
2016	695	0.68%	101,728	99.32%	0	0.00%	120	0.12%	98,010	95.69%	883	0.86%	0	0.00%	0	0.00%
2015	3,581	3.17%	109,261	96.83%	0	0.00%	232	0.21%	108,172	95.86%	1,149	1.02%	2,489	2.21%	46	0.04%
2014	4,715	4.22%	106,947	95.78%	0	0.00%	388	0.35%	105,279	94.28%	1,899	1.70%	3,464	3.10%	69	0.06%
2013	3,988	4.30%	88,652	95.70%	0	0.00%	565	0.61%	86,732	93.62%	2,142	2.31%	2,715	2.93%	41	0.04%
2012	4,101	4.96%	78,592	95.04%	1	0.00%	700	0.85%	76,370	92.35%	2,400	2.90%	2,713	3.28%	46	0.06%
2011	4,283	5.73%	70,526	94.27%	1	0.00%	852	1.14%	68,173	91.13%	2,517	3.36%	2,846	3.80%	40	0.05%
2010	4,567	6.71%	63,501	93.29%	1	0.00%	951	1.40%	61,097	89.76%	2,557	3.76%	3,077	4.52%	36	0.05%
2009	4,361	7.92%	50,735	92.08%	0	0.00%	1,013	1.84%	48,168	87.43%	2,688	4.88%	2,873	5.21%	60	0.11%
2008	6,819	9.30%	66,517	90.70%	1	0.00%	1,682	2.29%	62,454	85.16%	4,233	5.77%	4,402	6.00%	86	0.12%
2007	7,981	11.23%	63,080	88.77%	5	0.01%	2,176	3.06%	58,387	82.16%	4,865	6.85%	5,000	7.04%	90	0.13%
2006	8,869	13.37%	57,450	86.63%	7	0.01%	2,529	3.81%	52,120	78.59%	5,474	8.25%	5,544	8.36%	128	0.19%
2005	9,682	14.91%	55,267	85.09%	9	0.01%	2,902	4.47%	50,205	77.30%	5,190	7.99%	6,079	9.36%	125	0.19%
2004	10,343	17.49%	48,804	82.51%	7	0.01%	3,158	5.34%	43,788	74.03%	5,138	8.69%	6,421	10.86%	199	0.34%
2003	9,315	19.20%	39,210	80.80%	6	0.01%	2,911	6.00%	35,209	72.56%	4,104	8.46%	5,743	11.84%	176	0.36%
2002	8,527	21.86%	30,480	78.14%	3	0.01%	2,625	6.73%	27,054	69.36%	3,459	8.87%	5,342	13.69%	173	0.44%
2001	7,535	24.94%	22,683	75.06%	2	0.01%	2,283	7.56%	19,912	65.89%	2,752	9.11%	4,769	15.78%	139	0.46%
2000	4,415	19.20%	18,581	80.80%	3	0.01%	1,669	7.26%	16,442	71.50%	2,165	9.41%	2,338	10.17%	97	0.42%
1999	3,474	19.88%	14,005	80.12%	7	0.04%	1,375	7.87%	12,485	71.43%	1,549	8.86%	1,826	10.45%	71	0.41%
1998	2,733	20.50%	10,601	79.50%	0	0.00%	1,200	9.00%	9,066	67.99%	1,254	9.40%	1,356	10.17%	44	0.33%
<b>Total</b>	<b>110,941</b>	<b>8.32%</b>	<b>1,222,311</b>	<b>91.68%</b>	<b>53</b>	<b>0.00%</b>	<b>29,436</b>	<b>2.21%</b>	<b>1,123,358</b>	<b>84.26%</b>	<b>56,954</b>	<b>4.27%</b>	<b>68,997</b>	<b>5.18%</b>	<b>1,666</b>	<b>0.12%</b>

(a)(3) The initial test volume rate by model year and test station.

*Documentation provided electronically in Excel file.*

(a)(4) The initial test failure rate by model year and test station.

*Documentation provided electronically in Excel file.*